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SMX 3071.1(99-22R1)  
PATENT

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5/27/03

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of Keith Hall et al.  
Serial No. 09/817,821  
Filed March 26, 2001  
Confirmation No. 7846

Art Unit 1639

For COMBINATORIAL SYNTHESIS AND ANALYSIS OF METAL-LIGANDS  
COMPOSITIONS USING SOLUBLE METAL PRECURSORS

Examiner My-Chau T. Tran

May 19, 2003

**RESPONSE TO SECOND  
ELECTION OF SPECIES REQUIREMENT**

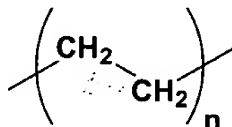
TO THE ASSISTANT COMMISSIONER FOR PATENTS,

SIR:

In response to the Office action of April 18, 2003, wherein a second Election of Species was requested, Applicants hereby elect the following for the sole purpose of conducting an initial search:

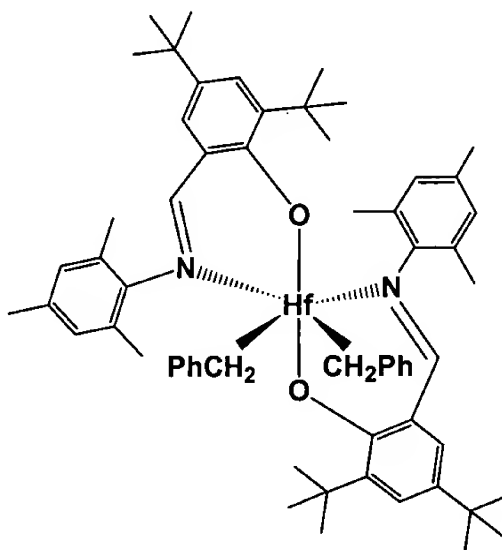
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Species 10: A polyethylene homopolymer is elected as the single species of polymerization product, the polymer having the structure:



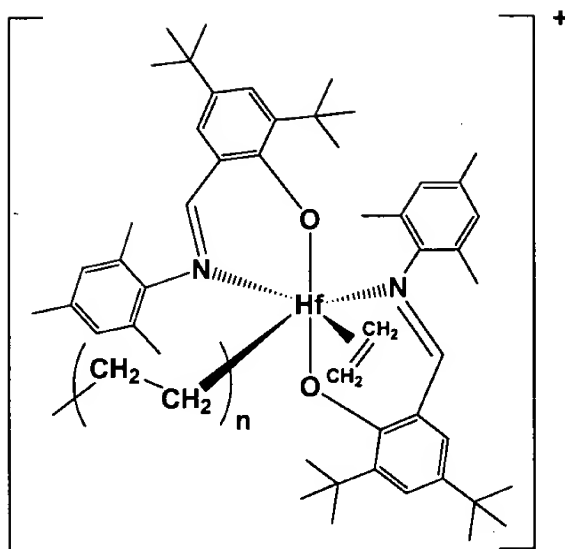
(wherein n generally indicates the number of repeat units present or the degree of polymerization).

Species 11: A metal-ligand composition, which is the product of the elected metal-binding ligand (i.e., species 4) and the elected soluble metal precursor (i.e., species 1), may *possibly* have the structure:



In this regard it is to be noted that this structure is only one possible structure that may result when the elected metal-binding ligand and the elected soluble metal precursor are brought together. Other structures may additionally, or alternatively, be formed due to, for example, the various conformations or geometries, the different metal-ligand stoichiometries, and/or the intramolecular reactions that may potentially occur.

Species 12: A *possible* structure which illustrates how the monomer (i.e., ethylene) of the elected polymerization product (i.e., species 10) and the elected metal-ligand composition (i.e., species 11) bind, upon activation, is:



In this regard it is to be noted that this structure is only one possible structure that may result when the ethylene monomer and the elected metal-ligand composition are brought together, upon activation. Other structures may additionally, or alternatively, be formed due to, for example, the various conformations or geometries, the different metal-ligand and/or metal-ligand composition-monomer stoichiometries, and/or the intramolecular reactions that may potentially occur.

Accordingly, claims reading on the elected species include 1-6, 9-19, 21, 22, 40, 41, 47-49, 52, 54-58 and 69-72.

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Please charge any additional fees required pursuant to 37 C.F.R. §1.17 to  
Deposit Account No. 19-1345.

Respectfully submitted,



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DEA/dep